

## ***F*ORTHCOMING PUBLICATIONS**

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### **Volume 82 (2008)**

**Interaction of an electric charge in the radial field of a heavy dyon**

**GAURAV BHAKUNI AND SHUCHI BISHT**

**Class transitions of compact objects Cygnus X-1 and Cygnus X-3**

**ACHINTYA K CHATTERJEE, MD WASHIMUL BARI AND ASIT K CHAUDHURY**

**Microwave reflection on Echelon cum Lamellar grating and its applications in astrophysics**

**P SENGUPTA, S MONDAL AND J N CHAKRAVORTY**

**UV-visible-near IR and infrared spectroscopy of  $\beta$ -carotene and  $\beta$ -carotene-iodine complex**

**A T OZA, G K SOLANKI, ANAND AMIN AND PARIMAL TRIVEDI**

**A new band system of the MgBr molecule**

**K N UTTAM, RENU SINGH AND PAVITRA TANDON**

**Calculation of the masses and the running masses of the quarks and leptons from electroweak to supersymmetric grand unification**

**B B DEO AND P K MISHRA**

**Self consistent microscopic theory of frictional ratchet in a nonequilibrium environment**

**JYOTIPRATIM RAY CHAUDHURI AND DEBASHIS BARIK**

**Magnetocaloric effect in amorphous ribbon based on finemet**

**M M UDDIN, S MANJURA HOQUE, MD SULTAN MAHMUD,  
M A HAKIM AND F U Z CHOWDHURY**

**Growth and characterization of gel grown potassium hydrogen levo-tartrate crystals**

**JAYESH GIVANI AND MIHIR J JOSHI**

**Growth, structural and optical studies on organic single crystal imidazole**

P M ANBARASAN, G MEENAKSHI, K JEYAPRIYA,  
M K SUBRAMANIAN AND K SUBRAMANI

**Evaluation of kinetic parameters from thermoluminescence glow curve**

MAHUA KARMAKAR, BIKASH KUMAR SARKAR, SUPRIYA BARMAN,  
P S MAZUMDAR, S DORENDRAJIT SINGH, W SAMBHUNATH SINGH AND  
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**Magnetospheric electron temperatures inferred from whistler observations at low latitudes**

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B L KOUL, LALMANI AND R P SINGH

**Validity of theoretical models in estimating the sound velocity in toluene-alcohol mixtures**

PALANIAPPAN LAKSHMANAN

**Luminescence studies on  $\gamma$  - irradiated Dy activated KNaSO<sub>4</sub> phosphors**

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